

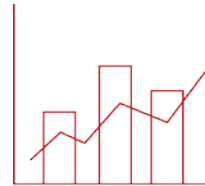
STRATEGIC **DATA** PROJECT

SDP TOOLKIT

FOR EFFECTIVE DATA USE

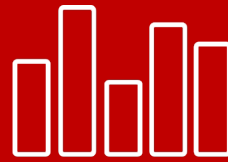
**A GUIDE FOR CONDUCTING DATA
ANALYSIS IN EDUCATION AGENCIES**

Please mute your computer speakers and phone microphone.



4. Analyze

www.gse.harvard.edu/sdp/tools



STRATEGIC DATA PROJECT

MISSION

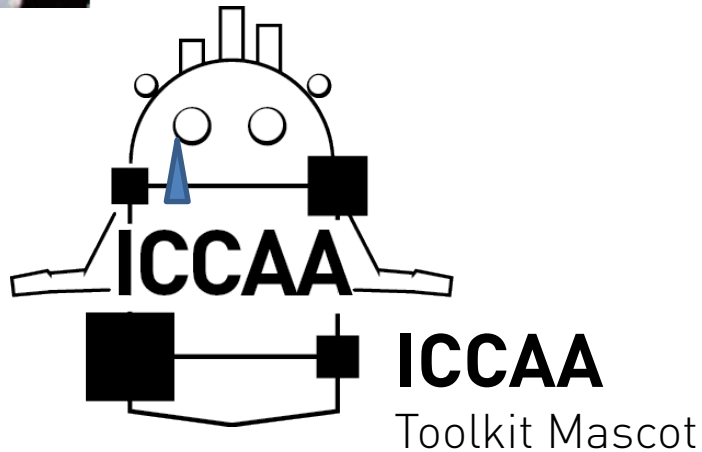
*Transform the use of data in
education to improve student
achievement.*



Todd Kawakita
Manager of Product Development



Antoniya Owens
Research Manager



ANALYZE WEBINAR:

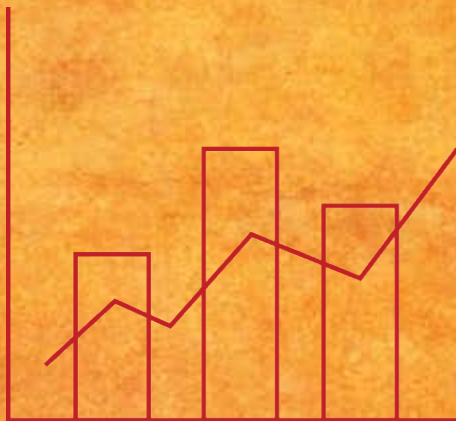
1

SDP TOOLKIT

FOR EFFECTIVE DATA USE

A GUIDE FOR CONDUCTING DATA
ANALYSIS IN EDUCATION AGENCIES

2



4. Analyze

3

Q & A

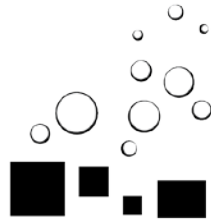
SDP TOOLKIT

FOR EFFECTIVE DATA USE

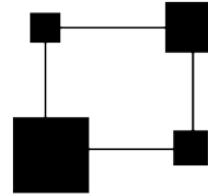
A GUIDE FOR CONDUCTING DATA
ANALYSIS IN EDUCATION AGENCIES



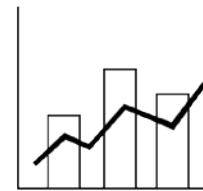
1. Identify
essential data
elements



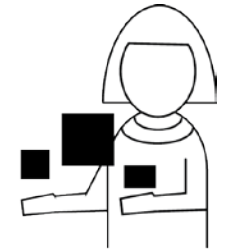
2. Clean,
check, and
build variables
for your
datasets



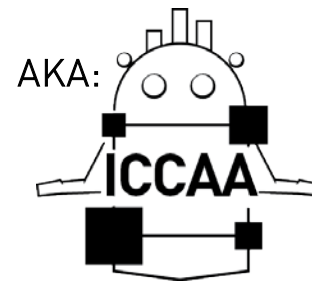
3. Connect
relevant
datasets from
different
sources



4. Analyze
your datasets



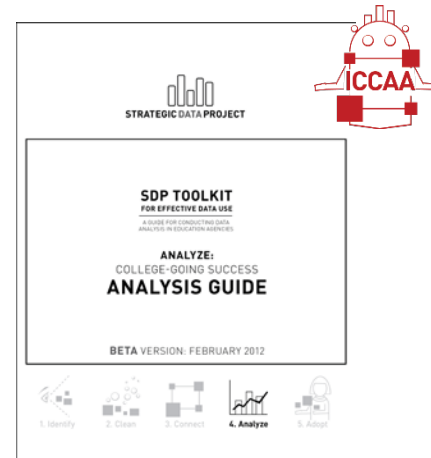
5. Adopt
best practices
to facilitate
shared and
replicable data
analysis



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ANALYSIS IN EDUCATION AGENCIES



I



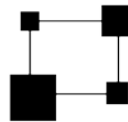
Identify: Data
Specification
Guide

C



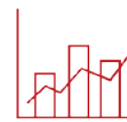
Clean: Data
Building Tasks

C



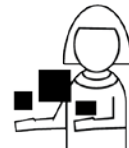
Connect: Data
Linking Guide

A

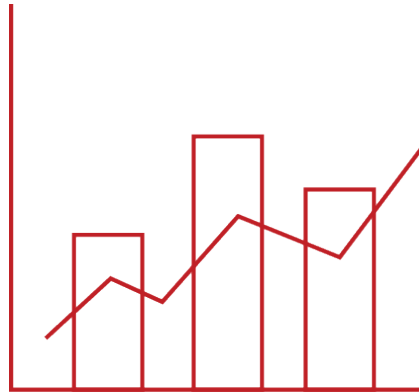


Analyze:
College Going
Success
Analysis Guide

A



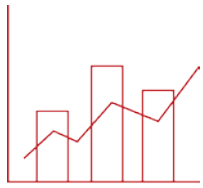
Adopt: Coding
Style Guide



4. Analyze

College-Going Success Analysis Guide

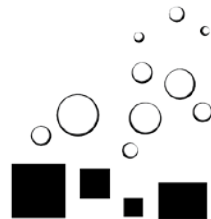
The final step in the SDP Toolkit for Effective Data Use is to analyze the data you have identified, cleaned, and connected.



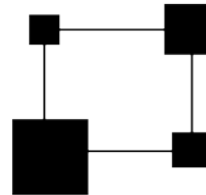
4. Analyze

Analyze Goals:

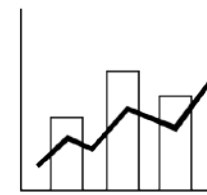
1. Use your final analysis file from Connect to generate at least 19 different model analyses displaying key outcomes along the education pipeline;
2. Glean new and confirmatory information about high school and college-going outcomes in your agency; and
3. Learned the essential methodologies from our model analyses to embark on your own analyses and “deeper dives” into the data.



2. Clean

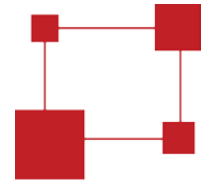


3. Connect



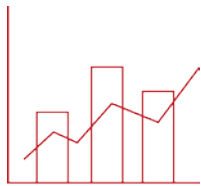
4. Analyze

Final File: Analysis File



3. Connect

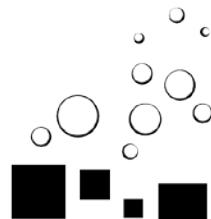
CG_Analysis_File									
1	sid	12	first_hs_id	21	ontime_grad	28	test_math_8	37-39	first_college_opeid_*
2	male	13	last_hs_id	22	late_grad	29	test_ela_8	40-42	first_college_name_*
3	race_ethnicity	14	longest_hs_id	23	stil_enrl	30	test_composite_8	43-45	enrl_1oct_grad_yr1_*
4	hs_diploma	15	first_hs_name	24	transferout	31	test_math_8_std	46-48	enrl_1oct_grad_yr2_*
5	hs_diploma_date	16	last_hs_name	25	dropout	32	test_ela_8_std	49-51	enrl_ever_w2_grad_*
6	frpl_ever	17	longest_hs_name	26	ged	33	test_composite_8_std	52-54	enrl_grad_persist_*
7	iep_ever	18	lastwithcode_group	27	disappear	34	qrt_8_math	55-57	enrl_grad_all4_*
8	ell_ever	19	chrt_ninth			35	qrt_8_ela	58-60	enrl_1oct_ninth_yr1_*
9	frpl_ever_hs	20	chrt_grad			36	qrt_8_composite	61-63	enrl_1oct_ninth_yr2_*
10	iep_ever_hs							64-66	enrl_ever_w2_ninth_*
11	ell_ever_hs							67-69	enrl_ninth_persist_*
								70-72	enrl_ninth_all4_*



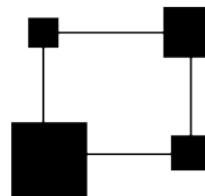
4. Analyze

Webinar Learning Objectives:

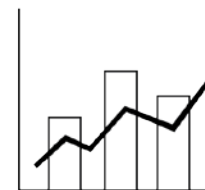
1. Become familiar with the education pipeline and its associated analyses;
2. Learn about two or three model analyses;
3. Get a sense for how you might use these analyses in your own agency.



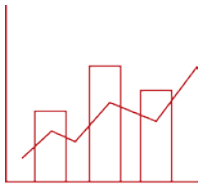
2. Clean



3. Connect



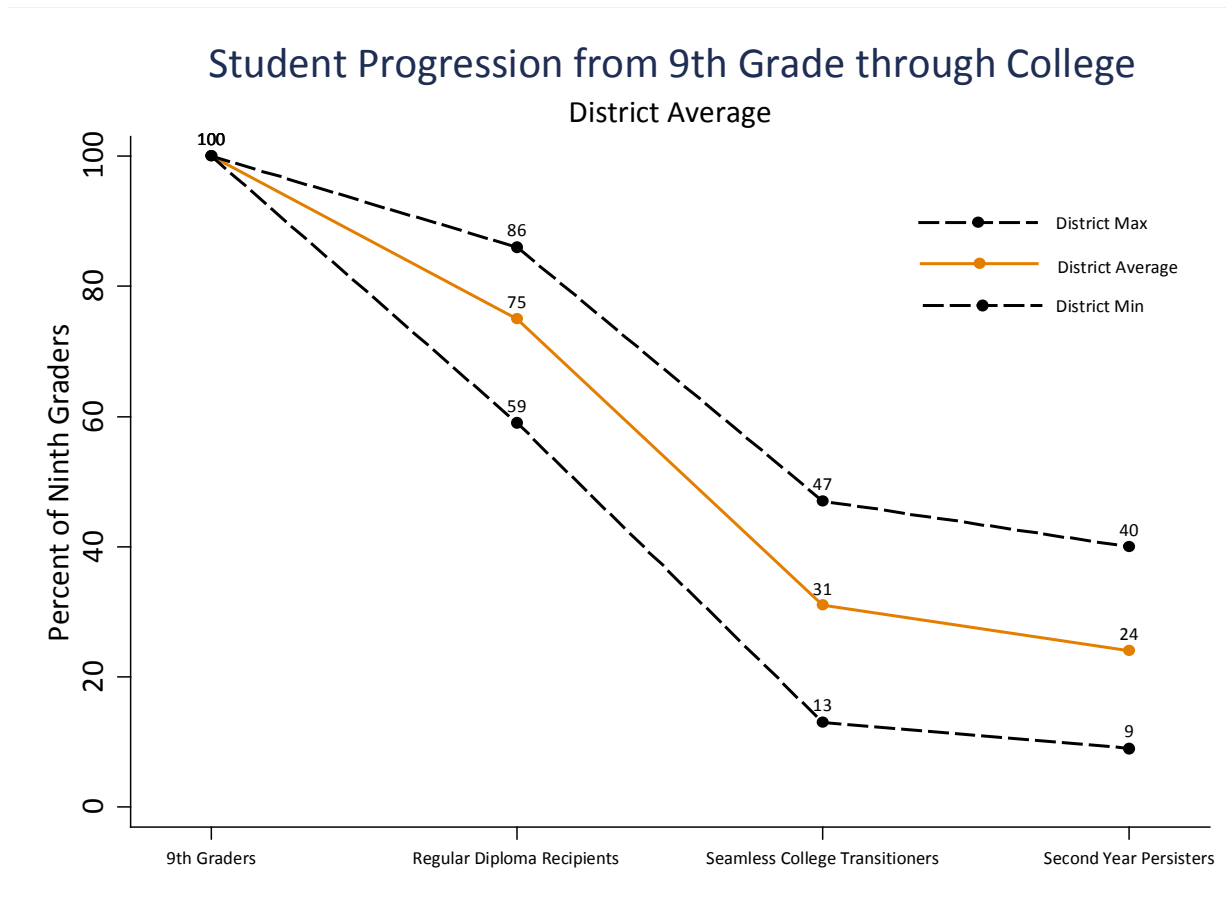
4. Analyze

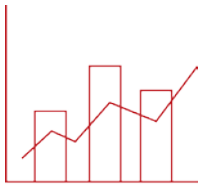


4. Analyze

A. Attainment Along the Education Pipeline
1. Overall Progression

p.9



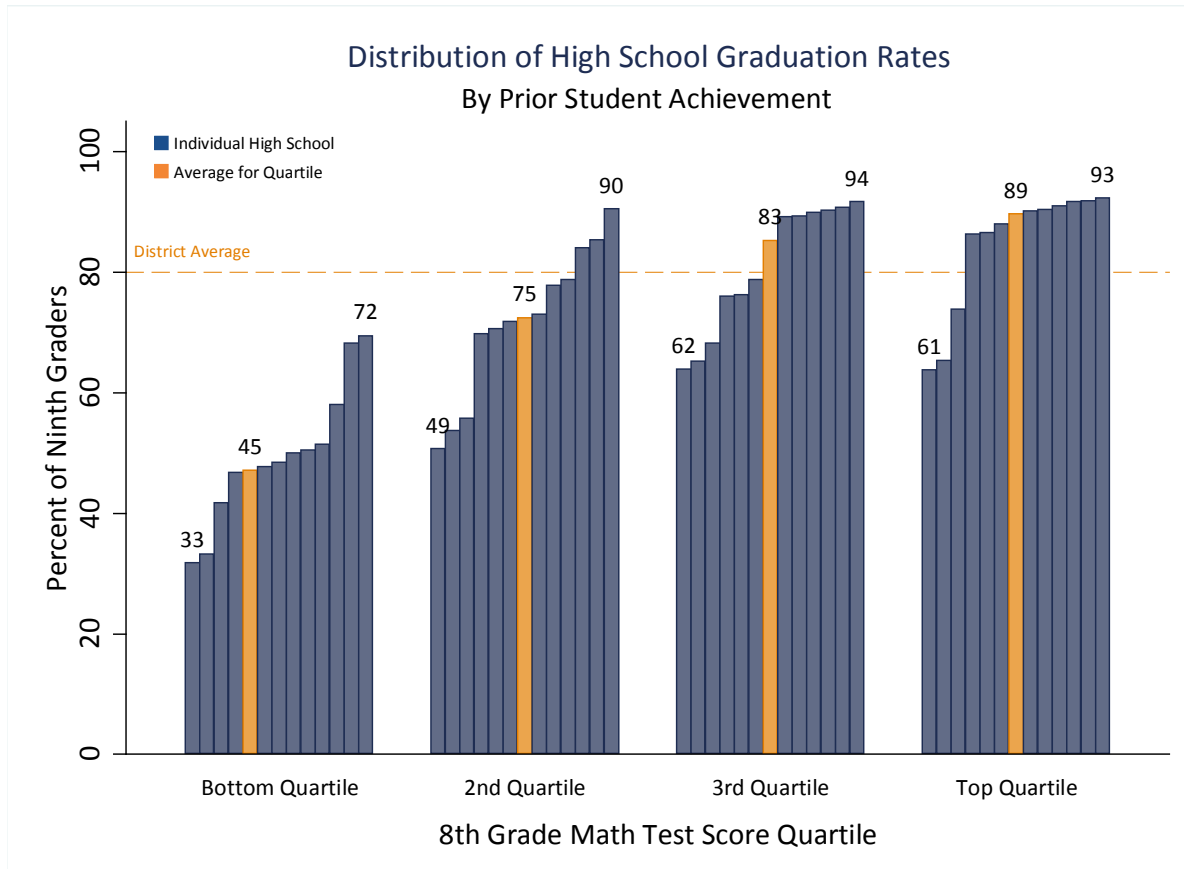


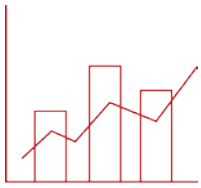
4. Analyze

C. High School Graduation

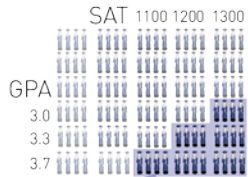
p.34

4. High School Graduation Rates by 8th Grade Achievement Quartiles





4. Analyze



High Achieving High School Graduates

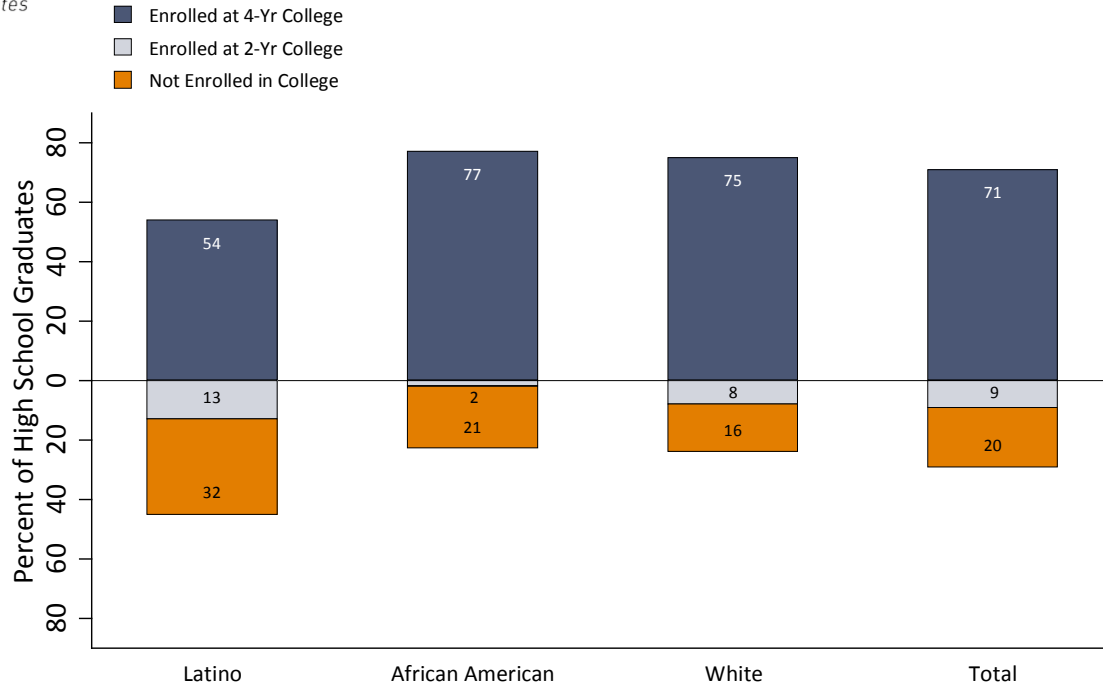
D. College Enrollment

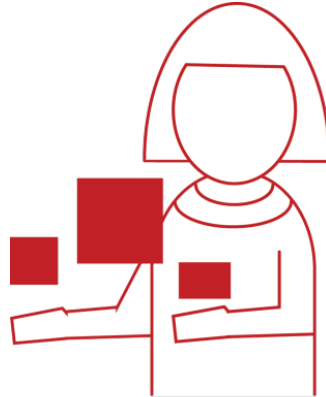
p.60

5. Rates of Non-Enrollment among Graduates Highly Qualified to Attend Four-Year Colleges

Rates of Highly Qualified Students Attending College by Race

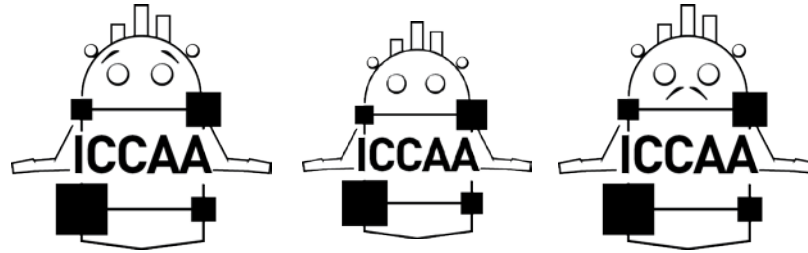
Among Graduates Eligible to Attend Four-Year Universities



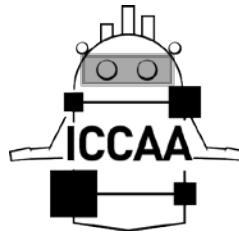


5. Adopt Coding Style Guide

To ensure that statistical code is easily shared across a team and is replicable by future users, SDP and the Center for Education Policy Research (CEPR) recommends that you follow best coding, programming, and data management practices.



Q & A



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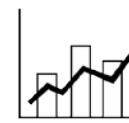
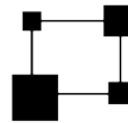
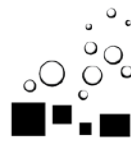
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A



Identify: Data
Specification
Guide

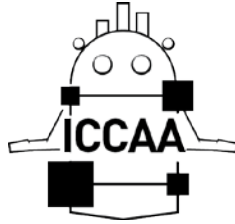
Clean: Data
Building Tasks

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College-Going
Success
Analysis Guide

Adopt: Coding
Style Guide

Thank You



*The toolkit is currently in **BETA**.*

Please send us your feedback at goo.gl/AAvdF.

Check www.gse.harvard.edu/sdp/tools for the most recent toolkit version.

Please contact us at sdp@gse.harvard.edu if you have any questions about the toolkit.